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Email: sapiencebangalore@gmail.com

Job No.: SCE/BBMP/HB/17/2020-2021 Date : 22.05.2021

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	: **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	: **Sri. H B Rajendra,** Contractor, Bangalore.
Name of Work	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	22.05.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.3	11.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	11.5	10.5	
	Combined Flakiness & Elongation index	21.80	22.10	

Note:

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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	22.05.2021

Sl no	Test	1	2	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	10.6	11.2	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	11.4	10.7	
	Combined Flakiness & Elongation index	22.00	21.90	

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Job No.: SCE/BBMP/HB/17/2020-2021

Date 24.05.2021

ATTERBERG LIMITS TEST FOR WMM

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. H B Rajendra,** Contractor, Bangalore.
Name of Work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
IS Code: IS 2720(Part 5):1985
Date of Testing : 22.05.2021 to 24.05.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	18.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: IS 2720(Part 5):1985
Date of Testing : 22.05.2021 to 24.05.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	19.00	-
2	Plasticity Index, %	23.5	6.0% Maximum.

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IS Code: IS 2720(Part 5):1985
Date of Testing : 22.05.2021 to 24.05.2021
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.55	-
2	Plasticity Index, %	23.5	6.0% Maximum.

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Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	18.55	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No: SCE/BBMP/HB/17/2020-2021

Date: 01.06.2021

TEST REPORT ON PAVING BITUMEN

Client	**Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency	**Sri. H B Rajendra,** Contractor, Bangalore.
Name of work	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
BIS Code	IS 73:2013,IS 1203:1978, IS 1208:1978, IS 1205:1978, IS1448(P-69):1969
Date of Testing	01.06.2021
Type of Mix	**Dense Graded Bituminous Macadam , VG 30**
Source of Location	**Hot Mix Plant**

The results of the tests conducted on the bitumen sample using for Dense Graded Bituminous Macadam

Sl.No	Description	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 0C, 100gms, 5sec, 1/10 mm	54	Min 45
2	Softening point, 0C	59	Min 47
3	Ductility at 250C, cm	99	Min40
4	Flash Point, 0C	248	Min 220

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JobNo: SCE/BBMP/HB/17/2020-2021

Date: : 01.06.2021

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. H B Rajendra,** Contractor, Bangalore.
Name of work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Source / Location : Hot Mix Plant, Bangalore
BIS Code : IS 2386 Part (4):1963
Type of Mix : Dense Graded Bituminous Macadam
Date of test : 01.06.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	386	388	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	85	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	301	305	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.02	21.39	**21.71**

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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JobNo: SCE/BBMP/HB/17/2020-2021

Date: : 01.06.2021

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.

Source / Location : Hot Mix Plant, Bangalore

BIS Code : IS 2386 Part (4):1963

Type of Mix : Dense Graded Bituminous Macadam

Date of test : 01.06.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	385	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	84	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	301	305	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	21.82	21.19	**21.50**

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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Source / Location : Hot Mix Plant, Bangalore
BIS Code : IS 2386 Part (4):1963
Type of Mix : Dense Graded Bituminous Macadam
Date of test : 01.06.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	84	86	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	297	297	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.05	22.45	22.25

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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Source / Location	: Hot Mix Plant, Bangalore
BIS Code	: IS 2386 Part (4):1963
Type of Mix	: Dense Graded Bituminous Macadam
Date of test	: 01.06.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	388	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	81	83	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	307	303	
5	Aggregate Impact value = percent fines	20.88	21.50	**21.19**
	100* (W2/W1) percent			

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

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TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.
Agency : **Sri. H B Rajendra,** Contractor, Bangalore.
Name of work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Source / Location : Hot Mix Plant, Bangalore
BIS Code : IS 2386 Part (4):1963
Type of Mix : Dense Graded Bituminous Macadam
Date of test : 01.06.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	380	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	85	87	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	295	296	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.37	22.72	**22.54**

Comments:
→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

For SAPIENCE CONSULTANTS

Priya

Authorised Signatory

Note:

1. The report shall not be reproduced, except in full, without the written approval of the laboratory.
2. The results indicated above are based on the tests carried out on the samples received in the labor
3. Any Query regarding the report must be reported within 30 days from the date of testing.

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ಯಶವಂತಪುರ ಉಪ ವಿಭಾಗ
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Email: sapiencebangalore@gmail.com

JobNo: SCE/BBMP/HB/17/2020-2021

Date: : 01.06.2021

TEST RESULTS OF AGGREGATE IMPACT VALUE

Client	: Executive Engineer, RR Nagar Division,BBMP, Bangalore.
Agency	: Sri. H B Rajendra, Contractor, Bangalore.
Name of work	Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.
Source / Location	: Hot Mix Plant, Bangalore
BIS Code	: IS 2386 Part (4):1963
Type of Mix	: Dense Graded Bituminous Macadam
Date of test	: 01.06.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	385	385	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	87	89	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	298	296	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	22.60	23.12	22.86

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

For SAPIENCE CONSULTANTS

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TEST RESULTS OF AGGREGATE IMPACT VALUE

Client : **Executive Engineer,** RR Nagar Division,BBMP, Bangalore.

Agency : **Sri. H B Rajendra,** Contractor, Bangalore.

Name of work Comprehensive development of Roads and Drains in Ward no 17 Rajarajeshwari Nagara Assembly Constituency Under PACKAGE - 2019-20-RRN-DIV(03), BBMP, Bangalore.

Source / Location : Hot Mix Plant, Bangalore

BIS Code : IS 2386 Part (4):1963

Type of Mix : Dense Graded Bituminous Macadam

Date of test : 01.06.2021

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W1 g	385	387	
2	Weight of agregate passing 2.36 mm sieve after the test = W2 g	82	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W3 g	303	303	
5	Aggregate Impact value = percent fines 100* (W2/W1) percent	21.30	21.71	**21.50**

Comments:

→ Maximum allowable Aggregate Impact value for Dense Graded Bituminous Macadam is 27% (Table 500-8 of MORTH specification)

For SAPIENCE CONSULTANTS

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